

Beringer, Carrie

From: Tarka, Michelle <Michelle.Tarka@epa.state.oh.us>
Sent: Wednesday, July 24, 2013 1:55 PM
To: Masello, Evonne; Davis, Jim; Beringer, Carrie
Cc: Tarka, Michelle
Subject: FW: OEPA Sample Results
Attachments: J26964-1 UDS Level 2 Report Final Report.pdf

Please forward to Stewart, Steve, anyone else.

We are releasing this to the public as it is requested...

We are still expecting the wipe sample results from last Monday (splits with WTI) on 7/29

From: Popotnik, Frank
Sent: Wednesday, July 24, 2013 6:53 AM
To: Tarka, Michelle; Kurko, Jennifer; Princic, Kurt
Subject: FW: OEPA Sample Results

FYI

From: Zingales, Frank
Sent: Tuesday, July 23, 2013 5:54 PM
To: Popotnik, Frank
Subject: OEPA Sample Results

Attached: OEPA sample results for splits provided by Heritage.

TestAmerica sample number 240-26964-1: ash from 10-DAY AREA.
TestAmerica sample numbers 240-26964-2/240-26964-3/240-26964-4: slag samples W381256/W381255/W381254

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-26964-1
Client Project/Site: Heritage Thermal - TNE-130716-HW

For:
Ohio EPA-NEDO
2110 East Aurora Road
Twinsburg, Ohio 44087

Attn: Frank Zingales



Authorized for release by:
7/23/2013 3:50:51 PM
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Ohio EPA-NEDO
Project/Site: Heritage Thermal - TNE-130716-HW

TestAmerica Job ID: 240-26964-1

Qualifiers

Metals

| Qualifier | Qualifier Description |
|-----------|---|
| 4 | MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable. |
| F | MS or MSD exceeds the control limits |
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| U | Indicates the analyte was analyzed for but not detected. |
| L | A negative instrument reading had an absolute value greater than the reporting limit |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| % | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative error ratio |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

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Case Narrative

Client: Ohio EPA-NEDO
Project/Site: Heritage Thermal - TNE-130716-HW

TestAmerica Job ID: 240-26964-1

Job ID: 240-26964-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Ohio EPA-NEDO

Project: Heritage Thermal - TNE-130716-HW

Report Number: 240-26964-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 07/18/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 5.2 C.

TOTAL METALS (ICP)

Samples 10-DAY AREA (240-26964-1), W381256 (240-26964-2), W381255 (240-26964-3) and W381254 (240-26964-4) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 07/19/2013 and analyzed on 07/22/2013 and 07/23/2013.

Barium, Manganese, Potassium, Sodium and Zinc were detected in method blank MB 240-94287/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Antimony failed the recovery criteria low for the MS of sample 240-26955-1 in batch 240-94525. Aluminum, Calcium, Iron and Manganese failed the recovery criteria high.

Antimony, Barium, Iron and Manganese failed the recovery criteria low for the MSD of sample 240-26955-1 in batch 240-94525. Aluminum and Calcium failed the recovery criteria high.

Case Narrative

Client: Ohio EPA-NEDO
Project/Site: Heritage Thermal - TNE-130716-HW

TestAmerica Job ID: 240-26964-1

Job ID: 240-26964-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Samples 10-DAY AREA (240-26964-1)[100X] and [20X], W381256 (240-26964-2)[10X], W381255 (240-26964-3)[10X] and W381254 (240-26964-4)[10X] required dilution prior to analysis due to the nature of the sample matrices. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis. All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples 10-DAY AREA (240-26964-1), W381256 (240-26964-2), W381255 (240-26964-3) and W381254 (240-26964-4) were analyzed for total mercury in accordance with EPA SW-846 Method 7471A. The samples were prepared on 07/19/2013 and analyzed on 07/23/2013.

No difficulties were encountered during the mercury analysis. All quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples W381256 (240-26964-2), W381255 (240-26964-3) and W381254 (240-26964-4) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 07/22/2013.

No difficulties were encountered during the % solids analysis. All quality control parameters were within the acceptance limits.

Method Summary

Client: Ohio EPA-NEDO

Project/Site: Heritage Thermal - TNE-130716-HW

TestAmerica Job ID: 240-26964-1

| Method | Method Description | Protocol | Laboratory |
|----------|--------------------|----------|------------|
| 6010B | Metals (ICP) | SWB46 | TAL CAN |
| 7471A | Mercury (CVAA) | SWB46 | TAL CAN |
| Moisture | Percent Moisture | EPA | TAL CAN |

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shaffer Street NW, North Canton, OH 44720, TEL (330)497-9396

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TestAmerica Canton

Sample Summary

Client: Ohio EPA-NEDO
Project/Site: Heritage Thermal - TNE-130716-HW

TestAmerica Job ID: 240-26964-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 240-26964-1 | 10-DAY AREA | Solid | 07/16/13 00:00 | 07/18/13 13:45 |
| 240-26964-2 | W381256 | Solid | 07/13/13 00:00 | 07/18/13 13:45 |
| 240-26964-3 | W381255 | Solid | 07/13/13 00:00 | 07/18/13 13:45 |
| 240-26964-4 | W381254 | Solid | 07/13/13 00:00 | 07/18/13 13:45 |



Detection Summary

Client: Ohio EPA-NEDO

Project/Site: Heritage Thermal - TNE-130716-HW

TestAmerica Job ID: 240-26964-1

Client Sample ID: 10-DAY AREA

Lab Sample ID: 240-26964-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|-----------|---------|-----------|------|-------|-------|-----|-----|-------|--------|-----------|
| Aluminum | 26000 | | 370 | 180 | mg/Kg | 20 | | 6010B | | Total/NA |
| Antimony | 120 | | 19 | 7.2 | mg/Kg | 20 | | 6010B | | Total/NA |
| Arsenic | 3600 | | 19 | 5.6 | mg/Kg | 20 | | 6010B | | Total/NA |
| Barium | 380 B | | 370 | 1.3 | mg/Kg | 20 | | 6010B | | Total/NA |
| Beryllium | 1.8 J | | 9.3 | 0.80 | mg/Kg | 20 | | 6010B | | Total/NA |
| Cadmium | 340 | | 3.7 | 0.67 | mg/Kg | 20 | | 6010B | | Total/NA |
| Calcium | 57000 | | 9300 | 300 | mg/Kg | 20 | | 6010B | | Total/NA |
| Chromium | 210 | | 9.3 | 3.7 | mg/Kg | 20 | | 6010B | | Total/NA |
| Cobalt | 120 | | 4.6 | 0.15 | mg/Kg | 1 | | 6010B | | Total/NA |
| Copper | 4300 | | 46 | 14 | mg/Kg | 20 | | 6010B | | Total/NA |
| Iron | 26000 | | 190 | 91 | mg/Kg | 20 | | 6010B | | Total/NA |
| Lead | 13000 | | 5.6 | 3.5 | mg/Kg | 20 | | 6010B | | Total/NA |
| Magnesium | 12000 | | 9300 | 94 | mg/Kg | 20 | | 6010B | | Total/NA |
| Manganese | 860 B | | 28 | 1.4 | mg/Kg | 20 | | 6010B | | Total/NA |
| Nickel | 8000 | | 74 | 5.0 | mg/Kg | 20 | | 6010B | | Total/NA |
| Potassium | 12000 B | | 9300 | 110 | mg/Kg | 20 | | 6010B | | Total/NA |
| Silver | 110 | | 9.3 | 1.9 | mg/Kg | 20 | | 6010B | | Total/NA |
| Sodium | 13000 B | | 9300 | 1200 | mg/Kg | 20 | | 6010B | | Total/NA |
| Thallium | 7.0 | | 0.93 | 0.51 | mg/Kg | 1 | | 6010B | | Total/NA |
| Vanadium | 160 | | 93 | 2.2 | mg/Kg | 20 | | 6010B | | Total/NA |
| Zinc | 26000 B | | 190 | 93 | mg/Kg | 100 | | 6010B | | Total/NA |
| Mercury | 0.12 | | 0.11 | 0.017 | mg/Kg | 1 | | 7471A | | Total/NA |

Client Sample ID: W381256

Lab Sample ID: 240-26964-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|-----------|---------|-----------|------|------|-------|-----|-----|-------|--------|-----------|
| Aluminum | 5300 | | 160 | 78 | mg/Kg | 10 | □ | 6010B | | Total/NA |
| Antimony | 13 | | 8.2 | 3.2 | mg/Kg | 10 | □ | 6010B | | Total/NA |
| Arsenic | 110 | | 8.2 | 2.4 | mg/Kg | 10 | □ | 6010B | | Total/NA |
| Barium | 360 B | | 160 | 0.58 | mg/Kg | 10 | □ | 6010B | | Total/NA |
| Cadmium | 8.2 | | 1.6 | 0.29 | mg/Kg | 10 | □ | 6010B | | Total/NA |
| Calcium | 66000 | | 4100 | 130 | mg/Kg | 10 | □ | 6010B | | Total/NA |
| Chromium | 34 | | 4.1 | 1.6 | mg/Kg | 10 | □ | 6010B | | Total/NA |
| Cobalt | 10 | | 4.1 | 0.13 | mg/Kg | 1 | □ | 6010B | | Total/NA |
| Copper | 75 | | 20 | 6.0 | mg/Kg | 10 | □ | 6010B | | Total/NA |
| Iron | 2800 | | 82 | 40 | mg/Kg | 10 | □ | 6010B | | Total/NA |
| Lead | 55 | | 2.4 | 1.5 | mg/Kg | 10 | □ | 6010B | | Total/NA |
| Magnesium | 5900 | | 4100 | 42 | mg/Kg | 10 | □ | 6010B | | Total/NA |
| Manganese | 220 B | | 12 | 0.60 | mg/Kg | 10 | □ | 6010B | | Total/NA |
| Nickel | 820 | | 3.3 | 0.22 | mg/Kg | 1 | □ | 6010B | | Total/NA |
| Potassium | 430 JB | | 4100 | 51 | mg/Kg | 10 | □ | 6010B | | Total/NA |
| Silver | 1.4 J | | 4.1 | 0.82 | mg/Kg | 10 | □ | 6010B | | Total/NA |
| Sodium | 3100 JB | | 4100 | 540 | mg/Kg | 10 | □ | 6010B | | Total/NA |
| Vanadium | 140 | | 41 | 0.98 | mg/Kg | 10 | □ | 6010B | | Total/NA |
| Zinc | 2100 B | | 16 | 8.2 | mg/Kg | 10 | □ | 6010B | | Total/NA |

Client Sample ID: W381255

Lab Sample ID: 240-26964-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|----------|--------|-----------|-----|-----|-------|-----|-----|-------|--------|-----------|
| Aluminum | 5500 | | 200 | 96 | mg/Kg | 10 | □ | 6010B | | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Ohio EPA-NEDO

Project/Site: Heritage Thermal - TNE-130716-HW

TestAmerica Job ID: 240-26964-1

Client Sample ID: W381255 (Continued)

Lab Sample ID: 240-26964-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|----------|-----------|------|------|-------|---------|--------------------------|--------|-----------|
| Antimony | 15 | | 10 | 3.9 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Arsenic | 100 | | 10 | 3.0 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Barium | 450 B | | 200 | 0.71 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Cadmium | 4.5 | | 2.0 | 0.36 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Calcium | 62000 | | 5000 | 160 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Chromium | 64 | | 5.0 | 2.0 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Cobalt | 15 | | 5.0 | 0.16 | mg/Kg | 1 | <input type="checkbox"/> | 6010B | Total/NA |
| Copper | 100 | | 25 | 7.4 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Iron | 3500 | | 100 | 49 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Lead | 49 | | 3.0 | 1.9 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Magnesium | 7400 | | 5000 | 51 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Manganese | 230 B | | 15 | 0.74 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Nickel | 1800 | | 4.0 | 0.27 | mg/Kg | 1 | <input type="checkbox"/> | 6010B | Total/NA |
| Potassium | 280 J B | | 5000 | 62 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Sodium | 3100 J B | | 5000 | 660 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Vanadium | 140 | | 50 | 1.2 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Zinc | 5100 B | | 20 | 10 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |

Client Sample ID: W381254

Lab Sample ID: 240-26964-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|----------|-----------|------|------|-------|---------|-------------------------------------|--------|-----------|
| Aluminum | 2900 | | 150 | 74 | mg/Kg | 10 | <input checked="" type="checkbox"/> | 6010B | Total/NA |
| Antimony | 16 | | 7.7 | 3.0 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Arsenic | 550 | | 7.7 | 2.3 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Barium | 310 B | | 150 | 0.55 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Cadmium | 31 | | 1.5 | 0.28 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Calcium | 72000 | | 3900 | 120 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Chromium | 34 | | 3.9 | 1.5 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Cobalt | 17 | | 3.9 | 0.12 | mg/Kg | 1 | <input type="checkbox"/> | 6010B | Total/NA |
| Copper | 76 | | 19 | 5.7 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Iron | 2000 | | 77 | 38 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Lead | 66 | | 2.3 | 1.5 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Magnesium | 6700 | | 3900 | 39 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Manganese | 330 B | | 12 | 0.57 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Nickel | 4000 | | 31 | 2.1 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Potassium | 230 J B | | 3900 | 48 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Sodium | 2800 J B | | 3900 | 510 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Vanadium | 80 | | 39 | 0.93 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |
| Zinc | 2000 B | | 15 | 7.7 | mg/Kg | 10 | <input type="checkbox"/> | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: Ohio EPA-NEDO

Project/Site: Heritage Thermal - TNE-130716-HW

TestAmerica Job ID: 240-26964-1

Client Sample ID: 10-DAY AREA

Date Collected: 07/16/13 00:00

Date Received: 07/18/13 13:45

Lab Sample ID: 240-26964-1

Matrix: Solid

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Aluminum | 26000 | | 370 | 180 | mg/Kg | | 07/19/13 11:51 | 07/23/13 00:10 | 20 |
| Antimony | 120 | | 19 | 7.2 | mg/Kg | | 07/19/13 11:51 | 07/23/13 00:10 | 20 |
| Arsenic | 3600 | | 19 | 5.6 | mg/Kg | | 07/19/13 11:51 | 07/23/13 00:10 | 20 |
| Barium | 380 | B | 370 | 1.3 | mg/Kg | | 07/19/13 11:51 | 07/23/13 00:10 | 20 |
| Beryllium | 1.8 | J | 9.3 | 0.80 | mg/Kg | | 07/19/13 11:51 | 07/23/13 00:10 | 20 |
| Cadmium | 340 | | 3.7 | 0.67 | mg/Kg | | 07/19/13 11:51 | 07/23/13 00:10 | 20 |
| Calcium | 57000 | | 9300 | 300 | mg/Kg | | 07/19/13 11:51 | 07/23/13 00:10 | 20 |
| Chromium | 210 | | 9.3 | 3.7 | mg/Kg | | 07/19/13 11:51 | 07/23/13 00:10 | 20 |
| Cobalt | 120 | | 4.6 | 0.15 | mg/Kg | | 07/19/13 11:51 | 07/22/13 14:26 | 1 |
| Copper | 4300 | | 46 | 14 | mg/Kg | | 07/19/13 11:51 | 07/23/13 00:10 | 20 |
| Iron | 26000 | | 190 | 91 | mg/Kg | | 07/19/13 11:51 | 07/23/13 00:10 | 20 |
| Lead | 13000 | | 5.6 | 3.5 | mg/Kg | | 07/19/13 11:51 | 07/23/13 00:10 | 20 |
| Magnesium | 12000 | | 9300 | 94 | mg/Kg | | 07/19/13 11:51 | 07/23/13 00:10 | 20 |
| Manganese | 860 | B | 28 | 1.4 | mg/Kg | | 07/19/13 11:51 | 07/23/13 00:10 | 20 |
| Nickel | 8000 | | 74 | 5.0 | mg/Kg | | 07/19/13 11:51 | 07/23/13 00:10 | 20 |
| Potassium | 12000 | B | 9300 | 110 | mg/Kg | | 07/19/13 11:51 | 07/23/13 00:10 | 20 |
| Selenium | 9.3 | U | 9.3 | 8.3 | mg/Kg | | 07/19/13 11:51 | 07/23/13 00:10 | 20 |
| Silver | 110 | | 9.3 | 1.9 | mg/Kg | | 07/19/13 11:51 | 07/23/13 00:10 | 20 |
| Sodium | 13000 | B | 9300 | 1200 | mg/Kg | | 07/19/13 11:51 | 07/23/13 00:10 | 20 |
| Thallium | 7.0 | | 0.93 | 0.51 | mg/Kg | | 07/19/13 11:51 | 07/22/13 14:26 | 1 |
| Vanadium | 160 | | 93 | 2.2 | mg/Kg | | 07/19/13 11:51 | 07/23/13 00:10 | 20 |
| Zinc | 26000 | B | 190 | 93 | mg/Kg | | 07/19/13 11:51 | 07/23/13 00:25 | 100 |

Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.12 | | 0.11 | 0.017 | mg/Kg | | 07/19/13 14:40 | 07/23/13 11:30 | 1 |

Client Sample Results

Client: Ohio EPA-NEDO

Project/Site: Heritage Thermal - TNE-130716-HW

TestAmerica Job ID: 240-26964-1

Client Sample ID: W381256

Date Collected: 07/13/13 00:00

Date Received: 07/18/13 13:45

Lab Sample ID: 240-26964-2

Matrix: Solid

Percent Solids: 92.2

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil. Fac |
|-----------|----------|-----------|------|------|-------|--------------------------|----------------|----------------|----------|
| Aluminum | 5300 | | 160 | 78 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:14 | 10 |
| Antimony | 13 | | 8.2 | 3.2 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:14 | 10 |
| Arsenic | 110 | | 8.2 | 2.4 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:14 | 10 |
| Barium | 360 B | | 160 | 0.58 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:14 | 10 |
| Beryllium | 4.1 U | | 4.1 | 0.35 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:14 | 10 |
| Cadmium | 8.2 | | 1.6 | 0.29 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:14 | 10 |
| Calcium | 56000 | | 4100 | 130 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:14 | 10 |
| Chromium | 34 | | 4.1 | 1.6 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:14 | 10 |
| Cobalt | 10 | | 4.1 | 0.13 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/22/13 14:31 | 1 |
| Copper | 75 | | 20 | 6.0 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:14 | 10 |
| Iron | 2800 | | 82 | 40 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:14 | 10 |
| Lead | 55 | | 2.4 | 1.5 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:14 | 10 |
| Magnesium | 5900 | | 4100 | 42 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:14 | 10 |
| Manganese | 220 B | | 12 | 0.60 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:14 | 10 |
| Nickel | 820 | | 3.3 | 0.22 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/22/13 14:31 | 1 |
| Potassium | 430 J B | | 4100 | 51 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:14 | 10 |
| Selenium | 4.1 U | | 4.1 | 3.7 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:14 | 10 |
| Silver | 1.4 J | | 4.1 | 0.82 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:14 | 10 |
| Sodium | 3100 J B | | 4100 | 540 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:14 | 10 |
| Thallium | 0.82 U L | | 0.82 | 0.45 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/22/13 14:31 | 1 |
| Vanadium | 140 | | 41 | 0.98 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:14 | 10 |
| Zinc | 2100 B | | 16 | 8.2 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:14 | 10 |

Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil. Fac |
|---------|--------|-----------|------|-------|-------|--------------------------|----------------|----------------|----------|
| Mercury | 0.10 | U | 0.10 | 0.015 | mg/Kg | <input type="checkbox"/> | 07/19/13 14:40 | 07/23/13 11:31 | 1 |

Client Sample Results

Client: Ohio EPA-NEDO

Project/Site: Heritage Thermal - TNE-130716-HW

TestAmerica Job ID: 240-26964-1

Client Sample ID: W381255

Date Collected: 07/13/13 00:00

Date Received: 07/18/13 13:45

Lab Sample ID: 240-26964-3

Matrix: Solid

Percent Solids: 92.4

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil. Fac |
|-----------|----------|-----------|------|------|-------|---|----------------|----------------|----------|
| Aluminum | 5500 | | 200 | 96 | mg/Kg | □ | 07/19/13 11:51 | 07/23/13 00:18 | 10 |
| Antimony | 15 | | 10 | 3.9 | mg/Kg | □ | 07/19/13 11:51 | 07/23/13 00:18 | 10 |
| Arsenic | 100 | | 10 | 3.0 | mg/Kg | □ | 07/19/13 11:51 | 07/23/13 00:18 | 10 |
| Barium | 450 B | | 200 | 0.71 | mg/Kg | □ | 07/19/13 11:51 | 07/23/13 00:18 | 10 |
| Beryllium | 5.0 U | | 5.0 | 0.43 | mg/Kg | □ | 07/19/13 11:51 | 07/23/13 00:18 | 10 |
| Cadmium | 4.5 | | 2.0 | 0.36 | mg/Kg | □ | 07/19/13 11:51 | 07/23/13 00:18 | 10 |
| Calcium | 62000 | | 5000 | 160 | mg/Kg | □ | 07/19/13 11:51 | 07/23/13 00:18 | 10 |
| Chromium | 64 | | 5.0 | 2.0 | mg/Kg | □ | 07/19/13 11:51 | 07/23/13 00:18 | 10 |
| Cobalt | 15 | | 5.0 | 0.16 | mg/Kg | □ | 07/19/13 11:51 | 07/22/13 14:36 | 1 |
| Copper | 100 | | 25 | 7.4 | mg/Kg | □ | 07/19/13 11:51 | 07/23/13 00:18 | 10 |
| Iron | 3500 | | 100 | 49 | mg/Kg | □ | 07/19/13 11:51 | 07/23/13 00:18 | 10 |
| Lead | 49 | | 3.0 | 1.9 | mg/Kg | □ | 07/19/13 11:51 | 07/23/13 00:18 | 10 |
| Magnesium | 7400 | | 5000 | 51 | mg/Kg | □ | 07/19/13 11:51 | 07/23/13 00:18 | 10 |
| Manganese | 230 B | | 15 | 0.74 | mg/Kg | □ | 07/19/13 11:51 | 07/23/13 00:18 | 10 |
| Nickel | 1800 | | 4.0 | 0.27 | mg/Kg | □ | 07/19/13 11:51 | 07/22/13 14:36 | 1 |
| Potassium | 280 J B | | 5000 | 62 | mg/Kg | □ | 07/19/13 11:51 | 07/23/13 00:18 | 10 |
| Selenium | 5.0 U | | 5.0 | 4.5 | mg/Kg | □ | 07/19/13 11:51 | 07/23/13 00:18 | 10 |
| Silver | 5.0 U | | 5.0 | 1.0 | mg/Kg | □ | 07/19/13 11:51 | 07/23/13 00:18 | 10 |
| Sodium | 3100 J B | | 5000 | 660 | mg/Kg | □ | 07/19/13 11:51 | 07/23/13 00:18 | 10 |
| Thallium | 1.0 UL | | 1.0 | 0.55 | mg/Kg | □ | 07/19/13 11:51 | 07/22/13 14:36 | 1 |
| Vanadium | 140 | | 50 | 1.2 | mg/Kg | □ | 07/19/13 11:51 | 07/23/13 00:18 | 10 |
| Zinc | 5100 B | | 20 | 10 | mg/Kg | □ | 07/19/13 11:51 | 07/23/13 00:18 | 10 |

Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil. Fac |
|---------|--------|-----------|------|-------|-------|---|----------------|----------------|----------|
| Mercury | 0.12 | U | 0.12 | 0.017 | mg/Kg | □ | 07/19/13 14:40 | 07/23/13 11:33 | 1 |

TestAmerica Canton

Client Sample Results

Client: Ohio EPA-NEDO

Project/Site: Heritage Thermal - TNE-130716-HW

TestAmerica Job ID: 240-26964-1

Client Sample ID: W381254

Date Collected: 07/13/13 00:00

Date Received: 07/18/13 13:45

Lab Sample ID: 240-26964-4

Matrix: Solid

Percent Solids: 97.3

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|----------|-----------|------|------|-------|--------------------------|----------------|----------------|---------|
| Aluminum | 2900 | | 150 | 74 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:21 | 10 |
| Antimony | 16 | | 7.7 | 3.0 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:21 | 10 |
| Arsenic | 550 | | 7.7 | 2.3 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:21 | 10 |
| Barium | 310 B | | 150 | 0.55 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:21 | 10 |
| Beryllium | 3.9 U | | 3.9 | 0.33 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:21 | 10 |
| Cadmium | 31 | | 1.5 | 0.28 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:21 | 10 |
| Calcium | 72000 | | 3900 | 120 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:21 | 10 |
| Chromium | 34 | | 3.9 | 1.5 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:21 | 10 |
| Cobalt | 17 | | 3.9 | 0.12 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/22/13 14:40 | 1 |
| Copper | 76 | | 19 | 5.7 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:21 | 10 |
| Iron | 2000 | | 77 | 38 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:21 | 10 |
| Lead | 66 | | 2.3 | 1.5 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:21 | 10 |
| Magnesium | 6700 | | 3900 | 39 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:21 | 10 |
| Manganese | 330 B | | 12 | 0.57 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:21 | 10 |
| Nickel | 4000 | | 31 | 2.1 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:21 | 10 |
| Potassium | 230 J B | | 3900 | 48 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:21 | 10 |
| Selenium | 3.9 U | | 3.9 | 3.5 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:21 | 10 |
| Silver | 3.9 U | | 3.9 | 0.77 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:21 | 10 |
| Sodium | 2800 J B | | 3900 | 510 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:21 | 10 |
| Thallium | 0.77 UL | | 0.77 | 0.43 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/22/13 14:40 | 1 |
| Vanadium | 80 | | 39 | 0.93 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:21 | 10 |
| Zinc | 2000 B | | 15 | 7.7 | mg/Kg | <input type="checkbox"/> | 07/19/13 11:51 | 07/23/13 00:21 | 10 |

Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|------|-------------|--------------------------|----------------|----------------|---------|
| Mercury | 0.11 | U | | 0.11 | 0.017 mg/Kg | <input type="checkbox"/> | 07/19/13 14:40 | 07/23/13 11:34 | 1 |

QC Sample Results

Client: Ohio EPA-NEDO

Project/Site: Heritage Thermal - TNE-130716-HW

TestAmerica Job ID: 240-26964-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-94287/1-A

Matrix: Solid

Analysis Batch: 94525

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Aluminum | 20 | U | 20 | 9.6 | mg/Kg | | 07/19/13 11:51 | 07/22/13 13:38 | 1 |
| Antimony | 1.0 | U | 1.0 | 0.39 | mg/Kg | | 07/19/13 11:51 | 07/22/13 13:38 | 1 |
| Arsenic | 1.0 | U | 1.0 | 0.30 | mg/Kg | | 07/19/13 11:51 | 07/22/13 13:38 | 1 |
| Barium | 0.147 | J | 20 | 0.071 | mg/Kg | | 07/19/13 11:51 | 07/22/13 13:38 | 1 |
| Beryllium | 0.50 | U | 0.50 | 0.043 | mg/Kg | | 07/19/13 11:51 | 07/22/13 13:38 | 1 |
| Cadmium | 0.20 | U | 0.20 | 0.036 | mg/Kg | | 07/19/13 11:51 | 07/22/13 13:38 | 1 |
| Calcium | 500 | U | 500 | 16 | mg/Kg | | 07/19/13 11:51 | 07/22/13 13:38 | 1 |
| Chromium | 0.50 | U | 0.50 | 0.20 | mg/Kg | | 07/19/13 11:51 | 07/22/13 13:38 | 1 |
| Cobalt | 5.0 | U | 5.0 | 0.16 | mg/Kg | | 07/19/13 11:51 | 07/22/13 13:38 | 1 |
| Copper | 2.5 | U | 2.5 | 0.74 | mg/Kg | | 07/19/13 11:51 | 07/22/13 13:38 | 1 |
| Iron | 10 | U | 10 | 4.9 | mg/Kg | | 07/19/13 11:51 | 07/22/13 13:38 | 1 |
| Lead | 0.30 | U | 0.30 | 0.19 | mg/Kg | | 07/19/13 11:51 | 07/22/13 13:38 | 1 |
| Magnesium | 500 | U | 500 | 5.1 | mg/Kg | | 07/19/13 11:51 | 07/22/13 13:38 | 1 |
| Manganese | 0.115 | J | 1.5 | 0.074 | mg/Kg | | 07/19/13 11:51 | 07/22/13 13:38 | 1 |
| Nickel | 4.0 | U | 4.0 | 0.27 | mg/Kg | | 07/19/13 11:51 | 07/22/13 13:38 | 1 |
| Potassium | 16.2 | J | 500 | 6.2 | mg/Kg | | 07/19/13 11:51 | 07/22/13 13:38 | 1 |
| Selenium | 0.50 | U | 0.50 | 0.45 | mg/Kg | | 07/19/13 11:51 | 07/22/13 13:38 | 1 |
| Silver | 0.50 | U | 0.50 | 0.10 | mg/Kg | | 07/19/13 11:51 | 07/22/13 13:38 | 1 |
| Sodium | 95.9 | J | 500 | 66 | mg/Kg | | 07/19/13 11:51 | 07/22/13 13:38 | 1 |
| Thallium | 1.0 | U | 1.0 | 0.55 | mg/Kg | | 07/19/13 11:51 | 07/22/13 13:38 | 1 |
| Vanadium | 5.0 | U | 5.0 | 0.12 | mg/Kg | | 07/19/13 11:51 | 07/22/13 13:38 | 1 |
| Zinc | 1.70 | J | 2.0 | 1.0 | mg/Kg | | 07/19/13 11:51 | 07/22/13 13:38 | 1 |

Lab Sample ID: LCS 240-94287/2-A

Matrix: Solid

Analysis Batch: 94525

| Analyte | Spike Added | LCS LCS | | | D | %Rec | Limits |
|-----------|-------------|---------|-----------|-------|---|------|----------|
| | | Result | Qualifier | Unit | | | |
| Aluminum | 200 | 191 | | mg/Kg | | 96 | 80 - 120 |
| Antimony | 50.0 | 47.9 | | mg/Kg | | 96 | 80 - 120 |
| Arsenic | 200 | 193 | | mg/Kg | | 96 | 80 - 120 |
| Barium | 200 | 195 | | mg/Kg | | 97 | 80 - 120 |
| Beryllium | 5.00 | 4.85 | | mg/Kg | | 97 | 80 - 120 |
| Cadmium | 5.00 | 4.84 | | mg/Kg | | 97 | 80 - 120 |
| Calcium | 5000 | 4990 | | mg/Kg | | 100 | 80 - 120 |
| Chromium | 20.0 | 19.3 | | mg/Kg | | 97 | 80 - 120 |
| Cobalt | 50.0 | 47.4 | | mg/Kg | | 95 | 80 - 120 |
| Copper | 25.0 | 24.0 | | mg/Kg | | 96 | 80 - 120 |
| Iron | 100 | 99.6 | | mg/Kg | | 100 | 80 - 120 |
| Lead | 50.0 | 47.8 | | mg/Kg | | 96 | 80 - 120 |
| Magnesium | 5000 | 4940 | | mg/Kg | | 99 | 80 - 120 |
| Manganese | 50.0 | 48.3 | | mg/Kg | | 97 | 80 - 120 |
| Nickel | 50.0 | 48.1 | | mg/Kg | | 96 | 80 - 120 |
| Potassium | 5000 | 4840 | | mg/Kg | | 97 | 80 - 120 |
| Selenium | 200 | 188 | | mg/Kg | | 94 | 80 - 120 |
| Silver | 5.00 | 4.84 | | mg/Kg | | 97 | 80 - 120 |
| Sodium | 5000 | 4850 | | mg/Kg | | 97 | 80 - 120 |
| Thallium | 200 | 193 | | mg/Kg | | 96 | 80 - 120 |

TestAmerica Canton

QC Sample Results

Client: Ohio EPA-NEDO

Project/Site: Heritage Thermal - TNE-130716-HW

TestAmerica Job ID: 240-26964-1

Method: 6010B - Metals (ICP) (Continued)

| Lab Sample ID: LCS 240-94287/2-A | | | | Client Sample ID: Lab Control Sample | | | | | |
|----------------------------------|----------------|---------------|------------------|--------------------------------------|---|------|----------|--|--|
| Matrix: Solid | | | | Prep Type: Total/NA | | | | | |
| Analysis Batch: 94525 | | | | Prep Batch: 94287 | | | | | |
| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits | | |
| Vanadium | 50.0 | 48.3 | | mg/Kg | | 97 | 80 - 120 | | |
| Zinc | 50.0 | 49.1 | | mg/Kg | | 98 | 80 - 120 | | |

| Lab Sample ID: 240-26955-D-1-C MS | | | | Client Sample ID: Matrix Spike | | | | | |
|-----------------------------------|------------------|---------------------|----------------|--------------------------------|-----------------|-------|---|------|----------|
| Matrix: Solid | | | | Prep Type: Total/NA | | | | | |
| Analysis Batch: 94525 | | | | Prep Batch: 94287 | | | | | |
| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
| Aluminum | 10000 | | 187 | 10800 | 4 | mg/Kg | | 198 | 75 - 125 |
| Antimony | 0.95 | U | 46.7 | 13.6 | F | mg/Kg | | 29 | 75 - 125 |
| Arsenic | 8.4 | | 187 | 163 | | mg/Kg | | 83 | 75 - 125 |
| Barium | 89 | B | 187 | 233 | | mg/Kg | | 78 | 75 - 125 |
| Beryllium | 0.56 | | 4.67 | 4.37 | | mg/Kg | | 81 | 75 - 125 |
| Cadmium | 0.040 | J | 4.67 | 3.92 | | mg/Kg | | 83 | 75 - 125 |
| Calcium | 2900 | | 4670 | 12600 | F | mg/Kg | | 207 | 75 - 125 |
| Chromium | 14 | | 18.7 | 29.2 | | mg/Kg | | 80 | 75 - 125 |
| Cobalt | 8.2 | | 46.7 | 54.2 | | mg/Kg | | 99 | 75 - 125 |
| Copper | 15 | | 23.4 | 37.7 | | mg/Kg | | 97 | 75 - 125 |
| Iron | 19000 | | 93.5 | 20200 | 4 | mg/Kg | | 750 | 75 - 125 |
| Lead | 8.7 | | 46.7 | 47.2 | | mg/Kg | | 82 | 75 - 125 |
| Magnesium | 3400 | | 4670 | 7740 | | mg/Kg | | 94 | 75 - 125 |
| Manganese | 200 | B | 46.7 | 267 | 4 | mg/Kg | | 143 | 75 - 125 |
| Nickel | 26 | | 46.7 | 72.6 | | mg/Kg | | 99 | 75 - 125 |
| Potassium | 920 | B | 4670 | 4790 | | mg/Kg | | 83 | 75 - 125 |
| Selenium | 0.48 | U | 187 | 149 | | mg/Kg | | 80 | 75 - 125 |
| Silver | 0.48 | U | 4.67 | 3.83 | | mg/Kg | | 82 | 75 - 125 |
| Sodium | 82 | JB | 4670 | 3910 | | mg/Kg | | 82 | 75 - 125 |
| Thallium | 0.95 | U | 187 | 176 | | mg/Kg | | 94 | 75 - 125 |
| Vanadium | 17 | | 46.7 | 56.1 | | mg/Kg | | 83 | 75 - 125 |
| Zinc | 58 | B | 46.7 | 106 | | mg/Kg | | 104 | 75 - 125 |

| Lab Sample ID: 240-26955-D-1-D MSD | | | | Client Sample ID: Matrix Spike Duplicate | | | | | |
|------------------------------------|------------------|---------------------|----------------|--|------------------|-------|---|------|----------|
| Matrix: Solid | | | | Prep Type: Total/NA | | | | | |
| Analysis Batch: 94525 | | | | Prep Batch: 94287 | | | | | |
| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | RPD |
| Aluminum | 10000 | | 187 | 11300 | 4 | mg/Kg | | 436 | 75 - 125 |
| Antimony | 0.95 | U | 46.7 | 14.3 | F | mg/Kg | | 31 | 75 - 125 |
| Arsenic | 8.4 | | 187 | 154 | | mg/Kg | | 78 | 75 - 125 |
| Barium | 89 | B | 187 | 223 | F | mg/Kg | | 72 | 75 - 125 |
| Beryllium | 0.56 | | 4.67 | 4.14 | | mg/Kg | | 77 | 75 - 125 |
| Cadmium | 0.040 | J | 4.67 | 3.76 | | mg/Kg | | 80 | 75 - 125 |
| Calcium | 2900 | | 4670 | 11700 | F | mg/Kg | | 188 | 75 - 125 |
| Chromium | 14 | | 18.7 | 28.4 | | mg/Kg | | 75 | 75 - 125 |
| Cobalt | 8.2 | | 46.7 | 49.4 | | mg/Kg | | 88 | 75 - 125 |
| Copper | 15 | | 23.4 | 35.1 | | mg/Kg | | 86 | 75 - 125 |
| Iron | 19000 | | 93.5 | 19200 | 4 | mg/Kg | | -357 | 75 - 125 |
| Lead | 8.7 | | 46.7 | 44.8 | | mg/Kg | | 77 | 75 - 125 |
| Magnesium | 3400 | | 4670 | 7410 | | mg/Kg | | 86 | 75 - 125 |

TestAmerica Canton

QC Sample Results

Client: Ohio EPA-NEDO

Project/Site: Heritage Thermal - TNE-130716-HW

TestAmerica Job ID: 240-26964-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 240-26955-D-1-D MSD

Matrix: Solid

Analysis Batch: 94525

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 94287

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|-----------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----|-------|
| Manganese | 200 | B | 46.7 | 223 | 4 | mg/Kg | | 50 | 75 - 125 | 18 | 20 |
| Nickel | 26 | | 46.7 | 66.4 | | mg/Kg | | 86 | 75 - 125 | 9 | 20 |
| Potassium | 920 | B | 4670 | 4920 | | mg/Kg | | 86 | 75 - 125 | 3 | 20 |
| Selenium | 0.48 | U | 187 | 142 | | mg/Kg | | 76 | 75 - 125 | 5 | 20 |
| Silver | 0.48 | U | 4.67 | 3.79 | | mg/Kg | | 81 | 75 - 125 | 1 | 20 |
| Sodium | 82 | J B | 4670 | 3740 | | mg/Kg | | 78 | 75 - 125 | 4 | 20 |
| Thallium | 0.95 | U | 187 | 166 | | mg/Kg | | 89 | 75 - 125 | 5 | 20 |
| Vanadium | 17 | | 46.7 | 55.1 | | mg/Kg | | 81 | 75 - 125 | 2 | 20 |
| Zinc | 58 | B | 46.7 | 99.0 | | mg/Kg | | 88 | 75 - 125 | 7 | 20 |

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 240-94296/1-A

Matrix: Solid

Analysis Batch: 94672

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 94296

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|------|-------|-------|---|----------------|----------------|---------|
| Mercury | 0.10 | U | 0.10 | 0.015 | mg/Kg | | 07/19/13 14:40 | 07/23/13 11:21 | 1 |

Lab Sample ID: LCS 240-94296/2-A

Matrix: Solid

Analysis Batch: 94672

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 94296

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|---------|-------------|------------|---------------|-------|---|------|----------|
| Mercury | 0.833 | 0.803 | | mg/Kg | | 96 | 73 - 121 |

Lab Sample ID: 240-26955-D-1-F MS

Matrix: Solid

Analysis Batch: 94672

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 94296

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| Mercury | 0.020 | J | 0.192 | 0.208 | | mg/Kg | | 97 | 11 - 192 |

Lab Sample ID: 240-26955-D-1-G MSD

Matrix: Solid

Analysis Batch: 94672

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 94296

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|---------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----|-------|
| Mercury | 0.020 | J | 0.192 | 0.208 | | mg/Kg | | 97 | 11 - 192 | 0 | 20 |

TestAmerica Canton

QC Association Summary

Client: Ohio EPA-NEDO

Project/Site: Heritage Thermal - TNE-130716-HW

TestAmerica Job ID: 240-26964-1

Metals

Prep Batch: 94287

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 240-26955-D-1-C MS | Matrix Spike | Total/NA | Solid | 3050B | |
| 240-26955-D-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 3050B | |
| 240-26964-1 | 10-DAY AREA | Total/NA | Solid | 3050B | |
| 240-26964-2 | W381256 | Total/NA | Solid | 3050B | |
| 240-26964-3 | W381255 | Total/NA | Solid | 3050B | |
| 240-26964-4 | W381254 | Total/NA | Solid | 3050B | |
| LCS 240-94287/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| MB 240-94287/1-A | Method Blank | Total/NA | Solid | 3050B | |

Prep Batch: 94296

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 240-26955-D-1-F MS | Matrix Spike | Total/NA | Solid | 7471A | |
| 240-26955-D-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 7471A | |
| 240-26964-1 | 10-DAY AREA | Total/NA | Solid | 7471A | |
| 240-26964-2 | W381256 | Total/NA | Solid | 7471A | |
| 240-26964-3 | W381255 | Total/NA | Solid | 7471A | |
| 240-26964-4 | W381254 | Total/NA | Solid | 7471A | |
| LCS 240-94296/2-A | Lab Control Sample | Total/NA | Solid | 7471A | |
| MB 240-94296/1-A | Method Blank | Total/NA | Solid | 7471A | |

Analysis Batch: 94525

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 240-26955-D-1-C MS | Matrix Spike | Total/NA | Solid | 6010B | 94287 |
| 240-26955-D-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 6010B | 94287 |
| 240-26964-1 | 10-DAY AREA | Total/NA | Solid | 6010B | 94287 |
| 240-26964-1 | 10-DAY AREA | Total/NA | Solid | 6010B | 94287 |
| 240-26964-1 | 10-DAY AREA | Total/NA | Solid | 6010B | 94287 |
| 240-26964-2 | W381256 | Total/NA | Solid | 6010B | 94287 |
| 240-26964-2 | W381256 | Total/NA | Solid | 6010B | 94287 |
| 240-26964-3 | W381255 | Total/NA | Solid | 6010B | 94287 |
| 240-26964-3 | W381255 | Total/NA | Solid | 6010B | 94287 |
| 240-26964-4 | W381254 | Total/NA | Solid | 6010B | 94287 |
| 240-26964-4 | W381254 | Total/NA | Solid | 6010B | 94287 |
| LCS 240-94287/2-A | Lab Control Sample | Total/NA | Solid | 6010B | 94287 |
| MB 240-94287/1-A | Method Blank | Total/NA | Solid | 6010B | 94287 |

Analysis Batch: 94672

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 240-26955-D-1-F MS | Matrix Spike | Total/NA | Solid | 7471A | 94296 |
| 240-26955-D-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 7471A | 94296 |
| 240-26964-1 | 10-DAY AREA | Total/NA | Solid | 7471A | 94296 |
| 240-26964-2 | W381256 | Total/NA | Solid | 7471A | 94296 |
| 240-26964-3 | W381255 | Total/NA | Solid | 7471A | 94296 |
| 240-26964-4 | W381254 | Total/NA | Solid | 7471A | 94296 |
| LCS 240-94296/2-A | Lab Control Sample | Total/NA | Solid | 7471A | 94296 |
| MB 240-94296/1-A | Method Blank | Total/NA | Solid | 7471A | 94296 |

QC Association Summary

Client: Ohio EPA-NEDO

Project/Site: Heritage Thermal - TNE-130716-HW

TestAmerica Job ID: 240-26964-1

General Chemistry

Analysis Batch: 94478

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------|------------------|-----------|--------|----------|------------|
| 240-26964-2 | W381256 | Total/NA | Solid | Moisture | |
| 240-26964-3 | W381255 | Total/NA | Solid | Moisture | |
| 240-26964-4 | W381254 | Total/NA | Solid | Moisture | |
| 240-26964-4 DU | W381254 | Total/NA | Solid | Moisture | |



Lab Chronicle

Client: Ohio EPA-NEDO
 Project/Site: Heritage Thermal - TNE-130716-HW

TestAmerica Job ID: 240-26964-1

Client Sample ID: 10-DAY AREA

Date Collected: 07/16/13 00:00

Date Received: 07/18/13 13:45

Lab Sample ID: 240-26964-1

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 6010B | | 20 | 94525 | 07/23/13 00:10 | KLC | TAL CAN |
| Total/NA | Prep | 3050B | | | 94287 | 07/19/13 11:51 | DEE | TAL CAN |
| Total/NA | Analysis | 6010B | | 100 | 94525 | 07/23/13 00:25 | KLC | TAL CAN |
| Total/NA | Analysis | 6010B | | 1 | 94525 | 07/22/13 14:26 | KLC | TAL CAN |
| Total/NA | Prep | 7471A | | | 94296 | 07/19/13 14:40 | DEE | TAL CAN |
| Total/NA | Analysis | 7471A | | 1 | 94672 | 07/23/13 11:30 | ADS | TAL CAN |

Client Sample ID: W381256

Date Collected: 07/13/13 00:00

Date Received: 07/18/13 13:45

Lab Sample ID: 240-26964-2

Matrix: Solid

Percent Solids: 92.2

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 6010B | | 10 | 94525 | 07/23/13 00:14 | KLC | TAL CAN |
| Total/NA | Prep | 3050B | | | 94287 | 07/19/13 11:51 | DEE | TAL CAN |
| Total/NA | Analysis | 6010B | | 1 | 94525 | 07/22/13 14:31 | KLC | TAL CAN |
| Total/NA | Prep | 7471A | | | 94296 | 07/19/13 14:40 | DEE | TAL CAN |
| Total/NA | Analysis | 7471A | | 1 | 94672 | 07/23/13 11:31 | ADS | TAL CAN |
| Total/NA | Analysis | Moisture | | 1 | 94478 | 07/22/13 14:44 | NJE | TAL CAN |

Client Sample ID: W381255

Date Collected: 07/13/13 00:00

Date Received: 07/18/13 13:45

Lab Sample ID: 240-26964-3

Matrix: Solid

Percent Solids: 92.4

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 6010B | | 10 | 94525 | 07/23/13 00:18 | KLC | TAL CAN |
| Total/NA | Prep | 3050B | | | 94287 | 07/19/13 11:51 | DEE | TAL CAN |
| Total/NA | Analysis | 6010B | | 1 | 94525 | 07/22/13 14:36 | KLC | TAL CAN |
| Total/NA | Prep | 7471A | | | 94296 | 07/19/13 14:40 | DEE | TAL CAN |
| Total/NA | Analysis | 7471A | | 1 | 94672 | 07/23/13 11:33 | ADS | TAL CAN |
| Total/NA | Analysis | Moisture | | 1 | 94478 | 07/22/13 14:44 | NJE | TAL CAN |

Client Sample ID: W381254

Date Collected: 07/13/13 00:00

Date Received: 07/18/13 13:45

Lab Sample ID: 240-26964-4

Matrix: Solid

Percent Solids: 97.3

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 94287 | 07/19/13 11:51 | DEE | TAL CAN |
| Total/NA | Analysis | 6010B | | 10 | 94525 | 07/23/13 00:21 | KLC | TAL CAN |
| Total/NA | Analysis | 6010B | | 1 | 94525 | 07/22/13 14:40 | KLC | TAL CAN |
| Total/NA | Prep | 7471A | | | 94296 | 07/19/13 14:40 | DEE | TAL CAN |
| Total/NA | Analysis | 7471A | | 1 | 94672 | 07/23/13 11:34 | ADS | TAL CAN |
| Total/NA | Analysis | Moisture | | 1 | 94478 | 07/22/13 13:20 | NJE | TAL CAN |

TestAmerica Canton

Lab Chronicle

Client: Ohio EPA-NEDO

Project/Site: Heritage Thermal - TNE-130716-HW

TestAmerica Job ID: 240-26964-1

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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Certification Summary

Client: Ohio EPA-NEDO

Project/Site: Heritage Thermal - TNE-130716-HW

TestAmerica Job ID: 240-26964-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|--------------|---------------|------------|------------------|-----------------|
| Connecticut | State Program | 1 | PH-0590 | 12-31-13 |
| Florida | NELAP | 4 | E87225 | 06-30-14 |
| Georgia | State Program | 4 | N/A | 06-30-14 |
| Illinois | NELAP | 5 | 200004 | 07-31-13 |
| Kansas | NELAP | 7 | E-10336 | 01-31-14 |
| Kentucky | State Program | 4 | 58 | 06-30-14 |
| L-A-B | DoD ELAP | | L2315 | 07-28-13 |
| Minnesota | NELAP | 5 | 039-999-348 | 12-31-13 |
| Nevada | State Program | 9 | OH-000482008A | 07-31-13 * |
| New Jersey | NELAP | 2 | OH001 | 06-30-14 |
| New York | NELAP | 2 | 10975 | 04-01-14 |
| Ohio VAP | State Program | 5 | CL0024 | 01-19-14 |
| Pennsylvania | NELAP | 3 | 68-00340 | 08-31-13 |
| Texas | NELAP | 6 | | 08-03-13 |
| USDA | Federal | | P330-11-00328 | 08-26-14 |
| Virginia | NELAP | 3 | 460175 | 09-14-13 |
| Washington | State Program | 10 | C971 | 01-12-14 |
| Wisconsin | State Program | 5 | 999518190 | 08-31-13 |

* Expired certification is currently pending renewal and is considered valid.

STATE FORM - CHAIN OF CUSTODY



MANSFIELD, MA
WESTBROOK, ME
TEL: 508-488-9220
FAX: 508-488-9193

Project Information

Project Name: **07/15/13**

Project Manager: **Frank G. Thorne**

Project Location: **Henry C. Thorne**

Project/PWS ID# **0 EPH-DMW/M**

Address: **2110 E. AURORA RD.**

TWINSBURG, OH **44087**

Phone: **330 - 963 - 1200**

Fax: **330 - 487 - 0769**

Email: **alpha@alphaheritageservices.com**

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

PROJECT NAME: **HERITAGE THERMAL**

PROJECT NUMBER: **TNE-130716-HW**

RUSH (every confirmed if unanswered)

Date Due: _____

Time: _____

Standard

Rush

Same Day

Next Day

2nd Day

3rd Day

4th Day

5th Day

6th Day

7th Day

8th Day

9th Day

10th Day

11th Day

12th Day

13th Day

14th Day

15th Day

16th Day

17th Day

18th Day

19th Day

20th Day

21st Day

22nd Day

23rd Day

24th Day

25th Day

26th Day

27th Day

28th Day

29th Day

30th Day

31st Day

1st Day

2nd Day

3rd Day

4th Day

5th Day

6th Day

7th Day

8th Day

9th Day

FORM NO. 01-15 (REV. 10-NOV-10)

PAGE **1** OF **2**

COC # **130716**

ALPHA Job #: **130716**

Report Information - Data Deliverables

FAX

ADEX

Add'l Deliverables

SAME AS Client Info

PO #: **330-963-1108**

Please Indicate PWS Class Below

COM

NTNC

TNC

LAB Contact: **DENISE PATT**

330-966-9789

SAMPLE HANDLING

Filtration

Done

Not needed

Lab to do

Preservation

Lab to do

BOTH

(PLEASE CHECK BELOW)

Source(1)

Source(2)

Type

Sample(1)

Sample(2)

Raw

Finished

Routine

Special



240-26964 Chain of Custody

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Date/Time

7/16/13 07:53 AM

7/17/13 08:10 AM

7/17/13 08:10 AM

7/17/13 08:10 AM

- (1) If Source is Multiple, please list connected sources
- (2) If Sample type is special please explain

Relinquished By

Steve Lamm

Michelle Miller

Frank G. Thorne

Denise Patterson

STATE FORM - CHAIN OF CUSTODY



Westfield, MA
TELE: 508-898-2200
FAX: 508-898-4103

Project Information

| | |
|-------------------|-------------------|
| Project Name: | 07/13/13 Incident |
| Project Location: | Hanover Thermal |
| Project/PWS ID#: | OEPAT-DMUM |
| Address: | |
| Phone: | |
| Fax: | |
| Email: | |

These samples have been previously analyzed by Alpha

| | |
|--|--------------------------------|
| Other Project Specific Requirements/Comments/Detection Limits: | PROJECT NAME: HERITAGE THERMAL |
| PROJECT NUMBER: TME-130716-HW | |

| ALPHA Lab ID (Lab Use Only) | DEP Location Code | DEP Location Name | Collection Date | Sample Time | Sample Matrix | Sampler's Initials |
|--------------------------------|----------------------|----------------------|--------------------|----------------|------------------|-----------------------|
| W3S1255 | | | 7/13/13 | | SOLID | SM |
| W3S1254 | | | 7/13/13 | | SOLID | SM |

PAGE 2 of 2
Data Rec'd in Lab: _____

COC # 130716
ALPHA Job #: 130716

Report Information - Data Deliverables

Same as Client Info

PO #: _____

FAX

ADEX

Add'l Deliverables

Please indicate PWS Class Below

COM

NTNC

TNC

Standard

RUSH (pay additional \$ per specimen)

Time:

Date Due:

Time:

Billing Information

Same as Client Info

PO #: _____

SAMPLE HANDLING

Filtration _____

Done

Not needed

Lab to do

Preservation _____

Lab to do

(PLEASE CHECK BELOW)

TOTAL

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- (1) If Source is Multiple, please list connected sources
 (2) If Sample type is special please explain

| | |
|---------------------------------------|-------------------------------|
| Relinquished By <i>Steve Lepen</i> | Date/Time 7/16/13 @ 15:12 |
| <i>Steve Lepen</i> | Date/Time 7/17/13 08:23:47 |
| <i>Steve Lepen</i> | Date/Time 7/17/13 13:45 |

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved.
 All samples submitted are subject to Alpha's Terms and Conditions.
 See reverse side.

TestAmerica Canton Sample Receipt Form/Narrative
Canton FacilityLogin # : 26964

| | | | | |
|--|-------------------------|---|---------|-------|
| Client <u>DEPA-111111</u> | Site Name _____ | Cooler unpacked by: <u>Daniel Green</u> | | |
| Cooler Received on <u>7/7/13</u> | Opened on <u>7/7/13</u> | | | |
| FedEx: 1 st Grd Exp UPS FAS Stetson | Client Drop Off | TestAmerica Courier | | |
| TestAmerica Cooler # | Foam Box | Client Cooler | | |
| Packing material used | Bubble Wrap | Foam Plastic Bag | | |
| COOLANT: | Wet Ice | Blue Ice | Dry Ice | Water |
| | None | Other _____ | | |

1. Cooler temperature upon receipt
- | | | | |
|----------------------|------------------------------------|-------------------------------------|--|
| IR GUN# A (CF -1 °C) | Observed Cooler Temp. <u>-1</u> °C | Corrected Cooler Temp. <u>-1</u> °C | <input type="checkbox"/> See Multiple Cooler Form |
| IR GUN# 4 (CF 0 °C) | Observed Cooler Temp. <u>0</u> °C | Corrected Cooler Temp. <u>0</u> °C | |
| IR GUN# 5 (CF +1 °C) | Observed Cooler Temp. <u>+1</u> °C | Corrected Cooler Temp. <u>+1</u> °C | |
| IR GUN# 8 (CF -0 °C) | Observed Cooler Temp. <u>-0</u> °C | Corrected Cooler Temp. <u>-0</u> °C | |
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity
- | | |
|-----|-------|
| Yes | No |
| Yes | No NA |
| Yes | No |
3. Shippers' packing slip attached to the cooler(s)?
- | | |
|-----|----|
| Yes | No |
| Yes | No |
| Yes | No |
4. Did custody papers accompany the sample(s)?
- | | |
|-----|----|
| Yes | No |
| Yes | No |
5. Were the custody papers relinquished & signed in the appropriate place?
- | | |
|-----|----|
| Yes | No |
| Yes | No |
6. Did all bottles arrive in good condition (Unbroken)?
- | | |
|-----|----|
| Yes | No |
| Yes | No |
7. Could all bottle labels be reconciled with the COC?
- | | |
|-----|----|
| Yes | No |
| Yes | No |
8. Were correct bottle(s) used for the test(s) indicated?
- | | |
|-----|----|
| Yes | No |
| Yes | No |
9. Sufficient quantity received to perform indicated analyses?
- | | |
|-----|----|
| Yes | No |
| Yes | No |
10. Were sample(s) at the correct pH upon receipt?
- | | |
|-----|-------|
| Yes | No NA |
| Yes | No |
11. Were VOAs on the COC?
- | | |
|-----|-------|
| Yes | No |
| Yes | No NA |
12. Were air bubbles >6 mm in any VOA vials?
- | | |
|-----|-------|
| Yes | No NA |
| Yes | No |
13. Was a trip blank present in the cooler(s)?
- | | |
|-----|----|
| Yes | No |
|-----|----|

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other
Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: [Signature]Limited Volume - Do not log TS per D.J.P.

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____